

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (currently amended) An information transmission system is characterized by two transmission lines and a plurality of transmission terminals that are connected thereto to transmit information to each other, wherein each of said transmission terminals is built up to receive information from a sender through said two transmission lines and is equipped with a relaying means which, when receiving said information from only one of said transmission lines, sends out the received information to the other transmission line so that all transmissions are conducted over both of said two transmission lines.

2. (original) The information transmission system according to claim 1, wherein said information transmission system is equipped with a means which preferentially relays information to a relaying means of a transmission terminal close to said sender.

Claim 3 (canceled).

4. (original) The information transmission system according to claim 3, wherein said information transmission system is equipped with a means which preferentially relays information to a relaying means of a transmission terminal close to said sender.

5. (currently amended) The information transmission system according to claim 1, wherein each of said transmission terminals is equipped with a means ~~which uses one of said two transmission lines to send~~ information from said terminal to the other transmission terminal,
wherein each of said transmission terminals is equipped with means to send information from said terminal to the other transmission terminal over one of said two transmission lines if determined to be necessary.

6. (original) The information transmission system according to claim 5, wherein said information transmission system is equipped with a means which preferentially relays information to a relaying means of a transmission terminal close to said sender.

7. (currently amended) An information transmission system for railway vehicles comprising transmission lines which connect a plurality of vehicles constituting a railway train and a plurality of transmission terminals which are connected to said transmission lines to transfer information among said vehicles, wherein each of said transmission terminals in respective vehicles is built up to receive information from a sender in the other vehicle separately through ~~said two~~ of said transmission lines and equipped with a relaying means which, when receiving said information from only one of said transmission lines, sends out the received information to the other vehicle ~~through the other~~ another transmission line so that all transmissions are conducted over two of said transmission lines.

Claim 8 (canceled).

9. (currently amended) The information transmission system according to claim 7, wherein each of said railway vehicles has two of said transmission terminals each of which has a means to respectively send information over use one of said transmission lines when said transmission terminal sends information from the vehicle having the transmission terminal to the other vehicle if necessary.

10. (currently amended) An information transmission method of an information transmission system comprising two transmission lines and a plurality of transmission terminals which are connected to said transmission lines to transmit information to each other, wherein said method comprises the steps of:

causing said transmission terminals to receive information from a sender separately through said two transmission lines;

detecting that said transmission terminal is receiving information on only one of said two transmission lines; and and

sending the received information to the other of said two transmission ~~lines~~ lines so that all transmissions are conducted over said two transmission lines.

IN THE ABSTRACT

Please amend the Abstract of the Disclosure as follows. A clean new abstract page is attached.

-- ABSTRACT OF THE DISCLOSURE

[Subject]

~~The present invention provides a~~ high reliability information transmission system which can continue transmission upon at the occurrence of multiple failures. ~~[Means for Solving the problems]~~ The system includes two Providing two key transmission lines and, connecting transmission terminals coupled to both of the key transmission lines. Data can be transmitted between respective terminals using, transmitting data to both key transmission lines. The, causing respective transmission terminals to always check the data reception status at the corresponding receiving terminals. When data is not being received, the data may be relayed to the receiving terminal using one of the other transmission lines, and causing the relaying function to relay data from one transmission line to the other transmission line when the data does not come from one of the transmission lines. --